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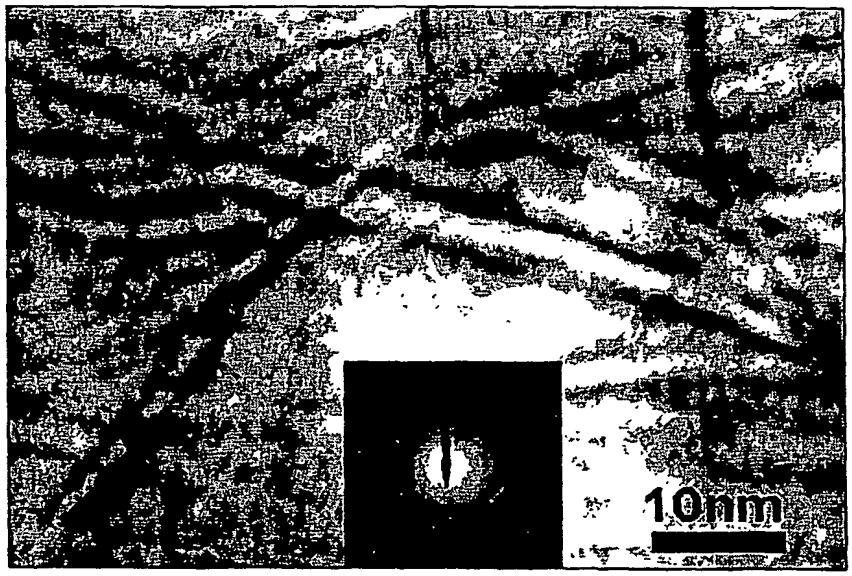
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Declarations under Rule 4.17:
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[Continued on next page]

(54) Title: METHOD FOR MANUFACTURING MESOPOROUS ALUMINA MOLECULAR SIEVE AND ALUMINA NANOTUBE AND USE OF THE ALUMINA NANOTUBE FOR STORAGE OF H2



(57) Abstract: A mesoporous alumina molecular sieve and a method of manufacturing a mesoporous alumina molecular sieve are provided. The mesoporous alumina molecular sieve of the invention is produced without using traditionally used additives. Also, because the size and distribution of the pores can be controlled, the molecular sieve can be produced simply and economically, producing molecular sieve with high surface area and thermal stability. Further, a method of manufacturing an alumina nanotube by using a surfactant and a use of the alumina nanotube as a hydrogen storage material are provided.

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